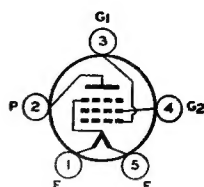


# RCA-6A4

## POWER-AMPLIFIER PENTODE

The 6A4 is a power-amplifier pentode of the 6.3-volt filament type for use in receivers employing a six-volt storage-battery filament supply. The 6A4 is interchangeable with type LA.



### CHARACTERISTICS

FILAMENT VOLTAGE (A. C. or D. C.)	6.3	Volts
FILAMENT CURRENT	0.3	Ampere
PLATE VOLTAGE	100 135 165 180 max.	Volts
SCREEN VOLTAGE (Grid No. 2)	100 135 165 180 max.	Volts
GRID VOLTAGE* (Grid No. 1)	-6.5 -9 -11 -12	Volts
PLATE CURRENT	9 14 20 22	Milliamperes
SCREEN CURRENT	1.6 2.5 3.5 3.9	Milliamperes
PLATE RESISTANCE (Approx.)	83250 52600 48000 45500	Ohms
AMPLIFICATION FACTOR (App.)	100 100 100 100	
TRANSCONDUCTANCE	1200 1900 2100 2200	Micromhos
LOAD RESISTANCE	11000 9500 8000 8000	Ohms
SELF-BIAS RESISTOR	615 545 470 465	Ohms
POWER OUTPUT†	0.31 0.7 1.2 1.4	Watts
BULB	ST-14	
BASE	Medium 5-Pin	

\* Grid volts measured from negative end of d-c operated filament. If the filament is a-c operated, the tabulated values of grid bias should each be increased by 4.0 volts and be referred to the mid-point of filament.

† 9 per cent total harmonic distortion.

### INSTALLATION AND APPLICATION

The base pins of the 6A4 fit the standard five-contact socket which should be mounted preferably to hold the tube in a vertical position. If it is necessary to place the tube in a horizontal position, the socket should be mounted with its filament-pin openings one vertically above the other. The coated filament of the 6A4 is primarily intended for operation from a six-volt storage battery. Socket terminal No. 1 should be connected to the positive battery terminal.

For the power amplifier stage, the 6A4 is recommended either singly or in push-pull combination. Transformer or impedance input-coupling devices are recommended. If, however, resistance coupling is employed, the grid resistor should not exceed 0.5 megohm. A family of plate characteristics for the 6A4 is shown on the following page.

